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## GREEN COUNTY

### (Green County Water Service Area Map)

- Estimated 1999 population of 10,500--95% on public water
- Estimated 2020 population of 10,400--100% on public water
- 365 miles of water lines, with plans for 38 additional miles
- Estimated funding needs for public water 2000-2005--\$1,000,000
- Estimated funding needs for public water 2006-2020--\$640,000

Green County had an estimated population of 10,468 (4,510 households) in 1999 with a projected population of 10,364 (4,684 households) in 2020. Public water is provided to about 95 percent of the county's residents. In areas of the county not served by public water, about 56 percent of the households rely on private domestic wells and 44 percent of the households rely on other sources. Virtually 100 percent of the county will be on public water service after new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
GREEN								-
Green-Taylor Water District	21.7	191	1,000					1,000
Total	21.7	191	1,000					1,000

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
GREEN								
Green-Taylor	16.1	154	640					640
Total	16.1	154	640					640

### PUBLIC WATER SYSTEMS

Green County has 2 public water systems: 1 municipal, Greensburg Water Works; 1 water district, Green Taylor Water District. The western part of the county is also served by Green River Valley Water District.

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# WATER SERVICE AREAS

## GREEN COUNTY

### Kentucky

*Prepared By:*  
**Water Resource Development Commission**

Department for Local Government  
1024 Capital Center Drive, Suite 340  
Frankfort, Kentucky 40601-8204  
502-573-2382 -- 502-573-2939 fax  
<http://dlgnt1.state.ky.us/wrdc/>

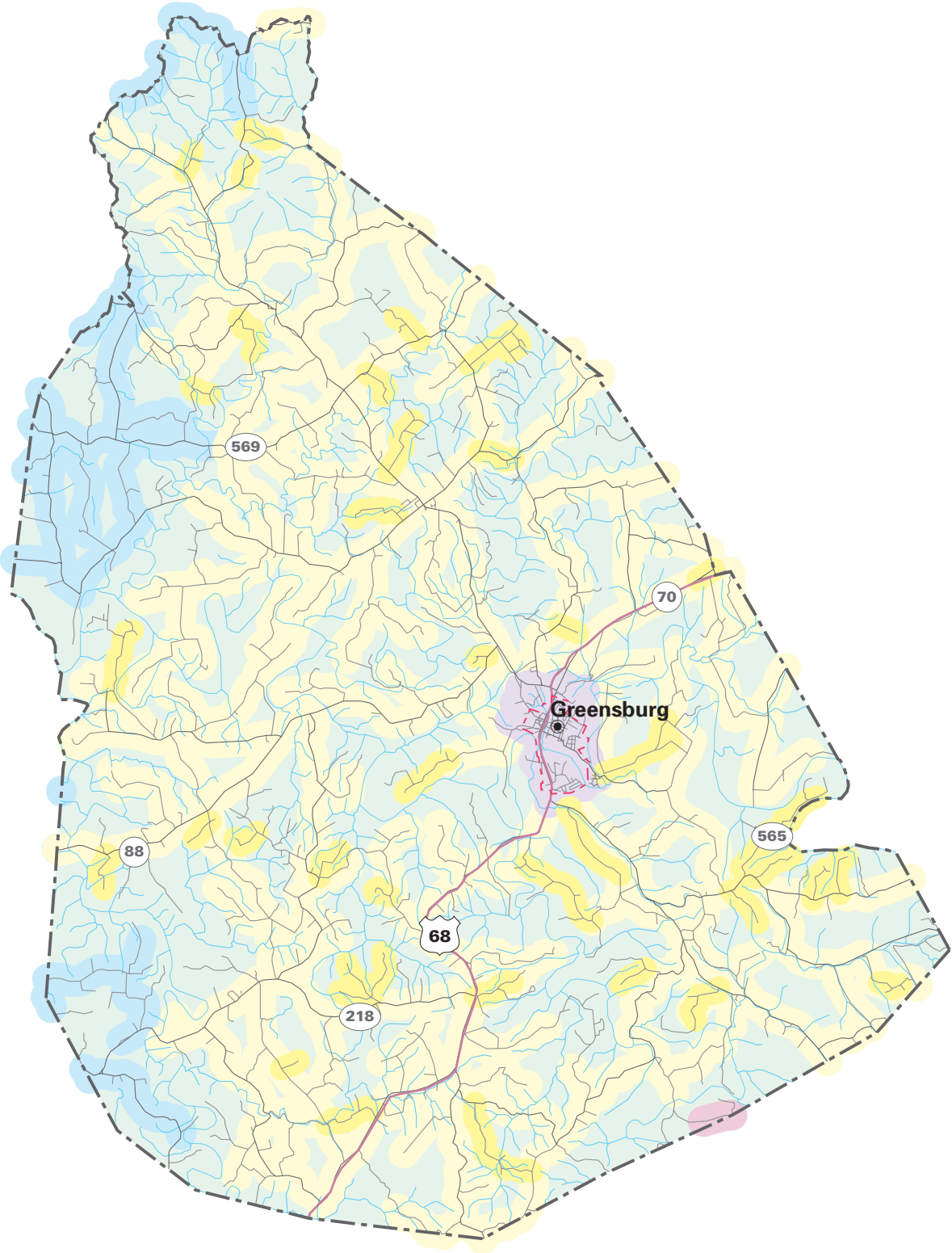
Bob Arnold, Chairman  
Lawrence Wetherby, Executive Director

Final GIS & Cartographic Operations By:  
Kent Anness & Kim Prough




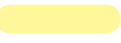
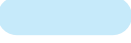



Data Collection & GIS Input By:  
Kentucky Area Development Districts



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#### WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		GREENSBURG WATER WORKS
		GREEN TAYLOR WATER DISTRICT
		GREEN RIVER VALLEY WATER DISTRICT
		ADAIR COUNTY WATER DISTRICT

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### **GREEN TAYLOR WATER DISTRICT**

PWSID: ..... 0440167  
System Type:..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 0.00  
Total Service Connections: ..... 3,650.00  
Number of Employees:..... 9.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... 5.78  
O/M costs 1997: ..... 925,186.00  
O/M costs per Service Connection: ..... 252.23  
Net Revenue 1997: ..... 56,104.00  
Total Water Produced 1997 (gallons):..... 0.00  
Water Sold 1997 (gallons): ..... 220,832,101.00  
Unaccounted-for Water 1997 (%): ..... 9.03

### **GREENSBURG WATER WORKS**

PWSID: ..... 0440168  
System Type:..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... GREEN RIVER  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 1.40  
Percent Daily Average Production:..... 77.00  
Total Tank Storage Capacity (gallons): ..... 200,000.00  
Total Service Connections: ..... 950.00  
Number of Employees:..... 3.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:..... 3A  
Customer Rate for 1,000 Gallons:..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons):..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

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## **PRIVATE DOMESTIC SYSTEMS**

About 500 people in Green County rely on private domestic water supplies: about 300 on wells and 200 on other sources.

In the limestone rich area of Green County more than three-quarters of the drilled wells in the uplands are adequate for a domestic supply. Yields as high as 50 gpm have been reported from wells penetrating large solution channels. In the low-lying areas in the Green and Barren River valleys, only a few wells yield enough water for a domestic supply.

Springs with flows ranging from a few gallons per minute too 318 gpm are found in the county. Minimum flow generally occurs in early fall, maximum flows in late winter.

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